PATENT
Att'y Dkt: 1927/46001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RIESS et al

Serial No.: 09/836,281

Filed: April 18, 2001

For: RELIABLE SYMBOLS AS A MEANS OF IMPROVING THE PERFORMANCE OF INFORMATION TRANSMISSION SYSTEMS

Examiner: Not assigned

Art Unit: 2631

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Preliminary to examination of the above-identified application, please amend the application as follows:

IN THE SPECIFICATION:

Please add the following section immediately after the title:

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of the following applications: WIPO 00/02648, filed July 10, 2000 (which benefits from the priority of UK application 9926167.4, filed November 4, 1999), and WIPO 0/02634, filed July 10, 2000 (which benefits from the priority of UK application 16938.3, also filed July 10, 2000), the disclosure of which is incorporated herein by reference. Certain claims may benefit from the priority of these applications.

IN THE CLAIMS:

Please amend the claims 11-18 as follows. A clean copy of the claims, as required by rule, are provided in the attached Appendix.

11. (Amended) The method of claim ~~11~~10, wherein the adding adds an absolute value of the sample y_{n-i} to the reliability factor.

12. (Amended) The method of claim ~~11~~10, wherein the adding adds a scaled value of the sample y_{n-i} to the reliability factor, the value scaled in accordance with a predetermined coefficient c_i.

13. (Amended) The method of claim ~~11~~10, wherein the adding adds the power of the sample y_{n-i} to the reliability factor.

14. (Amended) The method of claim ~~13~~10, wherein the predetermined limit is half a width of an annular constellation ring in which the candidate sample is observed.

15. (Amended) The method of claim ~~11~~10, wherein the predetermined limit is $(K_1 + K_2)d_{min}$ where d_{min} is half a distance between two constellation points that are closest together in a governing constellation.

16. (Amended) The method of claim ~~11~~10, wherein the predetermined limit varies over time.

17. (Amended) The method of claim ~~11~~10, further comprising determining a rate at which reliable symbols are identified, and

if the rate is less than a predetermined value, increasing the predetermined limit.

18. (Amended) The method of claim ~~11~~10, further comprising determining a rate at which reliable symbols are identified, and

if the rate exceeds a second predetermined value, decreasing the predetermined limit.

REMARKS

The application contains claims 1-57. Claims 11-18 have been amended to correct a clerical error. No surrender of subject matter is intended by any amendment made by this paper.

Attached hereto is version of the specification and claims by the current amendment. The attached page is captioned **"Appendix"**.

Respectfully submitted,

Date: 7/16/2001

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APPENDIX

IN THE CLAIMS:

11. (Amended) The method of claim 10, wherein the adding adds an absolute value of the sample y_{n-i} to the reliability factor.

12. (Amended) The method of claim 10, wherein the adding adds a scaled value of the sample y_{n-i} to the reliability factor, the value scaled in accordance with a predetermined coefficient c_i.

13. (Amended) The method of claim 10, wherein the adding adds the power of the sample y_{n-i} to the reliability factor.

14. (Amended) The method of claim 10, wherein the predetermined limit is half a width of an annular constellation ring in which the candidate sample is observed.

15. (Amended) The method of claim 10, wherein the predetermined limit is $(K_1 + K_2)d_{min}$ where d_{min} is half a distance between two constellation points that are closest together in a governing constellation.

16. (Amended) The method of claim 10, wherein the predetermined limit varies over time.

17. (Amended) The method of claim 10, further comprising determining a rate at which reliable symbols are identified, and

if the rate is less than a predetermined value, increasing the predetermined limit.

18. (Amended) The method of claim 10, further comprising determining a rate at which reliable symbols are identified, and

if the rate exceeds a second predetermined value, decreasing the predetermined limit.

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0400

PATENT
Docket No. 11927/46001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors	:	RIESS, et al.
Serial No.	:	09/836,281
Filed	:	April 18, 2001
For	:	RELIABLE SYMBOLS AS A MEANS FOR IMPROVING THE PERFORMANCE OF INFORMATION TRANSMISSION SYSTEMS
GROUP ART UNIT	:	Unassigned
EXAMINER	:	Unassigned

ASSISTANT COMMISSIONER FOR PATENTS
Washington, DC 20231

PROPOSED DRAWINGS CHANGES

Sir:

Applicants hereby propose to amend the drawings as shown in red ink in Fig. 6 (Box 3020). The Examiner's approval is solicited.

Respectfully submitted,

KENYON & KENYON

Date: June 13, 2001

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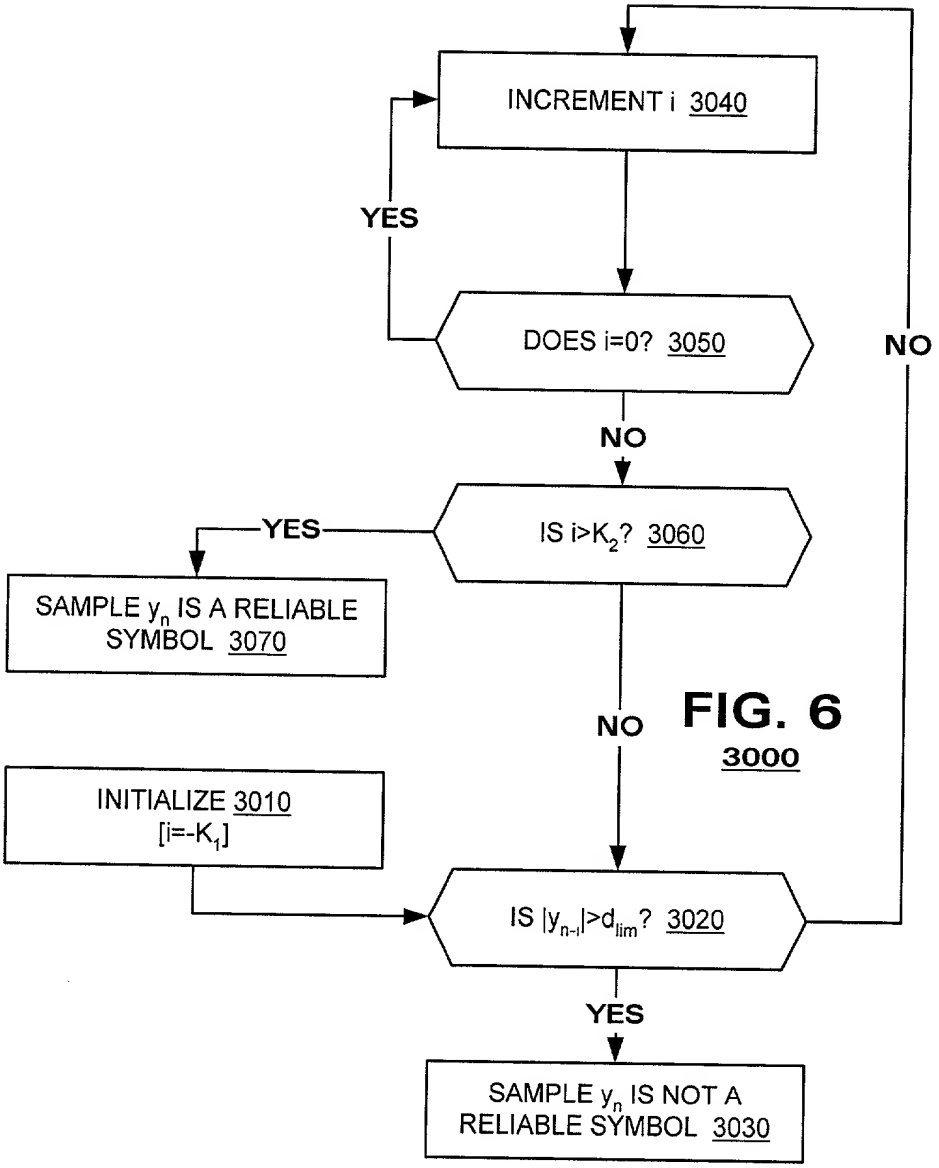
INCREMENT i 3040
YES
DOES i=0? 3050
NO
NO
IS i>K2? 3060
YES
SAMPLE yn IS A RELIABLE SYMBOL 3070
NO
INITIALIZE 3010 [i=-K1]
IS |yn-i|>dlim? 3020
YES
SAMPLE yn IS NOT A RELIABLE SYMBOL 3030

FIG. 6
3000